



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	03078	FOR FURTHER ACTION	as wel	see Form PCT/ISA/220 Il as, where applicable, item 5 below.
Into	ernational application No.	International filing date (day/m	onth/year)	(Earliest) Priority Date (day/month/year)
PC	T/KR2003/002939	31 DECEMBER 2003 (31.1	2.2003)	31 DECEMBER 2002 (31.12.2002)
-	plicant			
	s International search report has been preparticle 18. A copy is being transmitted to t		ing Authority	and is transmitted to the applicant according
This	s international search report consists of a t	otal of3 sheets. by of each prior art document cite	d in this repon	t.
1.	Basis of the report a. With regard to the language, the intellanguage in which it was filed, unless			of the international application in the
	The international search this Authority (Rule 23,		translation of	the international application furnished to
			closed in the i	nternational application, see Box No. I.
2.	Certain claims were found un			
3.	Unity of invention is lacking (See Box No. III)		
4.	With regard to the title,		•	1
	X the text is approved as submitte	d by the applicant.		
	the text has been established by	this Authority to read as follow	s:	
				·
5.	With regard to the abstract,			
	the text is approved as submitte			
	·		•	appears in Box No. IV. The applicant
	may, within one month from the	e date of mailing of this internation	onal search rep	port, submit comments to this Authority.
6.	With regard to the drawings,			
	a. the figure of the drawings to be pub	lished with the abstract is Figure	No5	
	X as suggested by the applic	ant.		Mo diff
	because the applicant faile	d to suggest a figure.		2001
	because this figure better of	haracterizes the invention.		0 3 2004. 4. 7
	b. none of the figure is to be publi			्र शहरीय विकास के किया है। अस्ति स्थापन के किया किया किया किया किया किया किया किया

Form PCT/ISA/210 (first sheet) (January 2004)





International application No. PCT/KR2003/002939

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 B29C 45/73, B29C 45/26, B29C 45/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 B29C 45/73, B29C 45/26, B29C 45/14, B32B 3/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and Applications for Invention since 1975

Korean Utility Models and Applications for Utility Models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) KIPASS, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 99/56935 A1 (General Electric Company) 11 November 1999 see the whole document	1-19
, Y	US 6,276,656 B1 (Thermal Wave Molding Corp.) 21 August 2001 see the whole document	1-11
Y	US 6,468,618 B1 (Ricoh Company, Ltd.) 22 October 2002 see the whole document	12-19
A	US 5,064,597 A (General Electric Company) 12 November 1991 see the whole document	1-19
A	JP 62-173219 A (Hitachi Ltd.) 30 July 1987 see the whole document	1-19

Further documents are listed in the continuation of Box C.	X See patent family annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
than the priority date claimed	
Date of the actual completion of the international search	Date of mailing of the international search report
19 APRIL 2004 (19.04.2004)	20 APRIL 2004 (20.04.2004)
Name and mailing address of the ISA/KR	Authorized officer
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Dacjeon 302-701, Republic of Korea	BAHN, Yong Byung
Facsimile No. 82-42-472-7140	Telephone No. 82-42-481-5539

Form PCT/ISA/210 (second sheet) (January 2004)





International application No.
PCT/KR2003/002939

Information on patent family members

Patent document cited in search report	Publication date	Patent family member(s)	· Publication date
WO 99/56935 A1	11.11.99	EP 1075376 A1	14.02.01
	,	US 6146558 A	14.11.00
		TW 463155	11.11.01
		CN 1117656 B	13.08.03
		AT 245088 E	15.08.03
US 6.276,656 B1	21.08.01	none	
US 6,468,618 B1	22.10.02	EP 1027978 A3	27.09.00
		EP 1211040 A3	07.08.02
		TW 476958 8	21.02.02
		ES 2181615 T3	01.03.03
US 5,064,597 A	12.11.91	none	
JP 62-173219 A	30.07.87	none	

Form PCT/ISA/210 (patent family annex) (January 2004)